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AUTEC POWER SYSTEMS

**Open Frame 3" X 5" Universal Input AC/DC Converter**

# Dual Output 5V/12V 50W(1)

PRELIMINARY

## Model UFC50-2002

| OUTPUT | Voltage | | Current | | | Ripple & Noise | Regulation (4) | |
|---|---|---|---|---|---|---|---|---|
| | Rated | Tolerance | Min (2) | Rated | Peak (3) | | Load | Line |
| **Main** | +5 V DC | +/-3.00% | 0.1 A | 3.0 A | 4A | 50mV | 3.00% | 0.50% |
| | +12V DC | +/- 5.00% | 0.1 A | 3.0A | 4A | 120mV | 5.00% | 1.00% |
| **Auxiliary** (Fan) | +12V DC | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| (LED) | +5V DC | n/a | n/a | n/a | n/a | n/a | n/a | n/a |

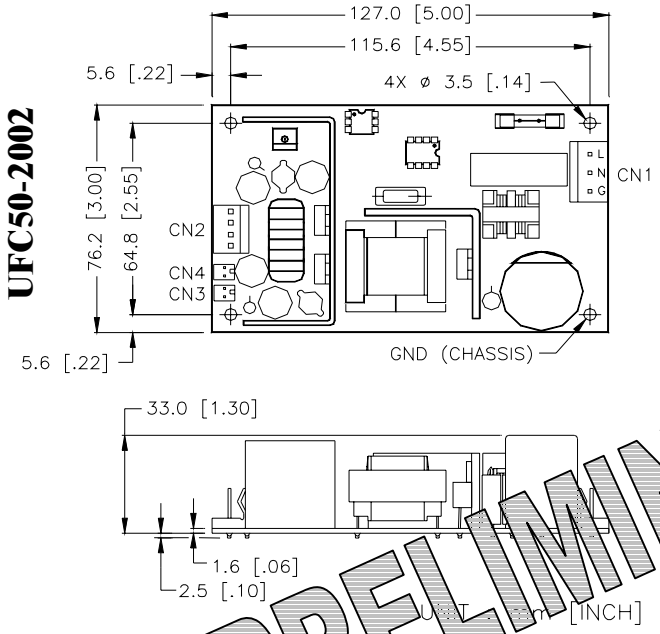
| INPUT | | Min | Nom | Max |
|---|---|---|---|---|
| *Voltage AC* | Universal AC | 90VAC | | 260VAC |
| *Frequency* | | 47Hz | | 440Hz |
| *Inrush Current* | At Min 115 VAC Max 230 VAC | 20A | | 40A |
| *Switching Frequency* | | | 60K Hz. | |
| *Hold-up Time* | Measured at 115VAC and rated Load | | 20mS, min | |
| *Fusing* | 2A, Slow-blow 115/230 VAC Non-User Serviceable | | | |
| **GENERAL SPECIFIFCATIONS** | | | | |
| *Efficiency* | 70% Min. Full Load 120 VAC | | | |
| *Overvoltage Protection* | +5V exceeds 115% -135% Causes shutdown, automatic recovery | | | |
| *Overload Protection* | All outputs protected against short circuit conditions, automatic recovery. | | | |
| | | | | |
| **Environmental** | | | | |
| *Temperature coefficient* | 0.02%/°C, All outputs | | | |
| *Temperature Range* | **Operational** 0 to 50°C at rated output power. Derates linearly to 50% power at 70°C. | | | |
| | **Storage** 55°C to 85°C | | | |
| **Safety, Regulatory & EMI** | | | | |
| *Agency Approvals* | UL1950 | | | |
| | CSA C22.2 N0.234 | | | |
| | TUV EN60950 | | | |
| *Hi-pot* | 3750 VAC input to output for 1 minute. | | | |
| *EMI* | Meets F.C.C part 15 class 'B' conducted. | | | |

# Model UFC50-2002

| PIN ASSIGNMENTS UFC50-2002 | | | | |
|---|---|---|---|---|
| CONNECTOR | CN1 | CN2 | CN3 | CN4 |
| | AC INPUT | DC OUTPUT | FAN | LED |
| PIN 1 | LINE | +12V | GND | GND |
| PIN 2 | N/C | GND | +12V | +5V |
| PIN 3 | NEUTRAL | GND | | |
| PIN 4 | N/C | +5V | | |
| PIN 5 | GND | | | |
| MOLEX (or equiv) | 09-65-2058 | 09-65-2048 | 22-04-1021 | 22-04-1021 |
| Mating Connector | 09-50-1051 | 09-50-1041 | 22-01-3027 | 22-01-3027 |

| | | | WIDTH | LENGTH | HEIGHT |
|---|---|---|---|---|---|
| UFC50-2002 | OUTLINE | inch | 3.00 | 5.00 | 1.30 |
| | | mm | 76.2 | 127.0 | 33.0 |
| | MOUNTING | inch | 2.55 | 4.55 | N/A |
| | | mm | 64.8 | 115.6 | N/A |

| SHIPPING SPECIFICATIONS | | | |
|---|---|---|---|
| MODEL | UNITS PER CARTON | CARTON WEIGHT | |
| UFC50-2002 | 64.0 | 16.5 Kgs | 36.37 Lbs |




PRELIMINARY

**NOTES:**

1. The power supply may be capable of more than the specified continuous and/or peak ratings, depending on the application. Consult factory Sales Engineer for feasibility.

2. Minimum load specified assures output voltage stability for all specified line voltage conditions. Full compliance to the total regulation specification may require additional loading (not to exceed 25% of rated output current). Operation at no load will not damage the power supply.

3. Each output can provide its full rated output current, provided total wattage does not exceed nominal (continuous) rating.

4. Total regulation includes the combined effects of: a) initial set point of main output of ± 1% max; b) line regulation for any input voltage change between 90 & 264 VAC; c) load regulation for a MIN. –100% of rated continuous load change: assumes that the total continuous power rating of the supply is not exceeded. [See Note3]. Performance during peak loading conditions is not included in the figure.

5. Specifications are subject to change without notice. AUTEC cannot be held liable for errors or omissions or the consequences thereof.